What is claimed is:

1. A method for the manufacture of an objective lens used for recording or reproducing optical information comprising a step of press molding a molding material that was premolded to a prescribed shape and is in a heated and softened state by using a pair of upper and lower molds having opposing molding surfaces, wherein

said objective lens is a lens which has a convex aspherical surface at the first surface and a numerical aperture NA satisfying the condition

$$NA \ge 0.8$$
,

the method comprises a step of transferring a molding surface shape by using a spherical molding material with a radius r and pressing the molding material between a pair of upper and lower molds, and

the paraxial curvature radius R of the convex aspherical surface satisfies the following relation:

$$r/R \le 1.35$$
.

2. A manufacturing method for an objective lens according to claim 1, wherein the aforementioned r and the paraxial curvature radius R of the convex aspherical surface satisfy the following relation

$$1.0 \le r/R \le 1.3$$
.

- 3. "A manufacturing method for an objective lens according to claim 1 or claim 2, wherein the optical magnification of the objective lens with respect to a standard wavelength is zero.
- 4. A manufacturing method for an objective lens according to any of claims 1-3, wherein

the focal distance, f (mm), of the objective lens satisfies the following relation:  $0.5 \le f \le 2.1$ .

- 5. A manufacturing method for an objective lens according to any of claims 1-4, wherein the axial wavefront aberration of the objective lens at a standard wavelength  $\lambda$  is 0.04 $\lambda$ rms or less.
- 6. A manufacturing method for an objective lens according to any of claims 1-5, wherein the objective lens is composed of an optical glass which has a refractive index n of 1.65 or more, an Abbe number vd of 40 or more, and a yield temperature Ts of 650°C or less.
- 7. An objective lens for recording and reproducing optical information which has a convex aspherical surface at the first surface and a numerical aperture NA satisfying the condition

 $NA \ge 0.8$ ,

this lens being a mold pressed lens in which the relationship

 $1.0 \le r/R \le 1.35$ 

is valid between a paraxial curvature radius R of the convex aspherical surface and r satisfying the following formula

$$(4/3)\pi r3 = V$$

where V stands for a volume of the objective lens.